

AQELA LUBRICANTS

DEO 20W-50 API CF-4

MULTIGRADE DIESEL ENGINE OIL

AQELA DEO 20W50 API CF-4 is a high quality multigrade diesel engine oil developed from top quality base oils and advanced additives package, use for most severe on highway and off highway application. It also provides excellent resistance to bore polishing, a high level of wear protection and ensures superior engine cleanliness at extended drain intervals.

AQELA ADVANCE performance is equivalent to or higher than **API CF-4**.
Product shelf life is 48 months from the date of acceptance.

The characteristic shown below:

Characteristics	SAE 20W-50
Kinematic Viscosity, mm ² /s @ 40°C ,cSt	166
Mm ² /s @ 100°C ,cSt	21.1
Flash Point, °C	240
Viscosity Index	150

Product Packaging :



4 Liter



Pail



Drum (209L)



CUSTOMER BENEFITS

- Exceeds all major American, European and Japanese OEM and Industry specifications.
- Excellent performance with extended oil drains intervals on low emission engines.
- Complete engine protection for every driving conditions.
- Exceptional engine cleanliness, protection against wear, sludge and varnish deposits.
- Very high shear stability-stay in grade.



AQELA LUBRICANTS

ULTIMATE POWER FULLY SYNTHETIC 5W 40

Recommended for vehicles 1500 cc and above

AQELA ULTIMATE POWER is a high performance Fully Synthetic blend multigrade SAE 5W-40 engine oil designed to provide the ultimate engine protection and enhanced performance, and for use in petrol engines.

AQELA ULTIMATE POWER lubricant is equivalent to or higher than **API CF**. The lubricant shelf life is 48 months from date acceptance.

The characteristic shown below:

Characteristics	API SN 5W-40
Density @ 15°C, kg/l	0.856
Pour Point, °C	-40
Flash Point, °C	235
Viscosity Kinematic @ 40°C, Cst	84
@ 100°C, Cst	13.95
Viscosity Index	171

Product Packaging :



4 Liter



Pail



Drum (209L)



CUSTOMER BENEFITS

- Exceeds all major American, European and Japanese OEM and Industry specifications.
- Excellent performance with extended oil drains intervals on low emission engines.
- Complete engine protection for every driving conditions.
- Exceptional engine cleanliness, protection against wear, sludge and varnish deposits.
- Very high shear stability-stay in grade.

Produced By
IFMS TECHNOLOGYSDN BHD (880927-T)

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AQELA LUBRICANTS

HAMAZ-AQ 100

GEARBOX OIL (INDUSTRIAL) AGMA 3 ISO VG 100

HIGH GRADE PRODUCT

AQELA HAMAZ-AQ 100 AGMA 3 is a high quality extreme pressure lubricant specifically for enclosed gear boxes operating under moderate to severe service condition. **AQELA HAMAZ-AQ 100** Industrial Gear Oil Oils are high performance oils recommended for use in most marine and industrial gear applications. **AQELA HAMAZ-AQ 100** Industrial Gear Oils are made from paraffinic base stocks and contain a carefully balanced additive package to help provide maximum gear protection and long lubricant life. **AQELA HAMAZ-AQ 100** is formulated with high viscosity and the requirement AGMA 250.04, DIN 51517 Part 3 and USA Steel 224. **AQELA HAMAZ-AQ 100** is equivalent to or higher as requirement, the shelf life is 48 months from the date of acceptance.

The characteristic shown below:

Characteristics	Test method	ISO VG 100
Kinematic Viscosity mm/s, @ 40°C	ASTM D 445	101
Flash Point, °C	ASTMD 92	266
Density	ASTM D 1298	0.8773

Product Packaging :



1 Liter



4 Liter



18 Liter



209 Liter

CUSTOMER BENEFITS :

- High mechanical shear resistance
- Enhanced corrosion protection.
- Lower overall maintenance cost.
- Exceptional demulsibility.
- Reduce friction and wear.

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AQELA LUBRICANTS

HAMAZ-AQ 150

GEARBOX OIL (INDUSTRIAL)

AGMA 4 ISO VG 150

HIGH GRADE PRODUCT

AQELA HAMAZ-AQ 150 AGMA EP gear oil is special formula gear lubricants for heavy duty industrial gear sets as specified by the AGMA (American Gear Manufacturers Association). Its an extreme pressure lubricant specifically for enclosed gear boxes operating under moderate to severe service condition. **AQELA HAMAZ-AQ 150** Industrial Gear Oils are high performance oils recommended for use in most marine and industrial gear applications. **AQELA HAMAZ-AQ 150** Industrial Gear Oils are made from paraffinic base stocks and contain a carefully balanced additive package to help provide maximum gear protection and long lubricant life. **AQELA HAMAZ-AQ 150** is formulated with high viscosity and the requirement AGMA 250.04, DIN 51517 Part 3 and USA Steel 224. **AQELA HAMAZ-AQ 150** is equivalent to or higher as requirement, the shelf life is 48 months from the date acceptance.

The characteristic shown below:

Characteristics	Test method	ISO VG 150
Kinematic Viscosity mm/s, @ 40°C	ASTM D 445	152
Flash Point, °C	ASTMD 92	284
Density	ASTM D 1298	0.8781

Product Packaging :



1 Liter



4 Liter



18 Liter



209 Liter



CUSTOMER BENEFITS :

- High mechanical shear resistance
- Enhanced corrosion protection.
- Lower overall maintenance cost.
- Reduce friction and wear.

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AQELA HPGO GL-5

GEAR OIL SAE 80W 90

AQELA HPGO GL-5 is premium extreme pressure (EP) semi synthetic hydrocarbon gear oil formulated for hypoid axle gears operating under severe conditions and for a very highly loaded gears subjected to dynamic loads with very good anti wear and oxidation stability.

AQELA HPGO GL-5 performance is equivalent to or higher than **SAE J2360 / API GL-5**

The shelf life for this product is 48 months from date acceptance.

The characteristic shown below:

Characteristics	SAE 80W90 (GL-5)
Pour Point, °C	-12
Flash Point, °C	182
Kinematic Viscosity, mm ² /s @40°C, cSt	158
mm ² /s @100°C	19.5
Viscosity Index	137

Product Packaging :



4 Liter



Pail (18L)



Drum (209L)



CUSTOMER BENEFITS

- Excellent protection against wearing, scoring produced by high speed and heavy loads. provide excellent protection from soot induced wear.
- Degradation and oil thickening to ensure deposit do not form around seal helps maintain clean bearing surface to minimize wear.
- Excellent thermal and oxidation stability that minimized low temperature sludge build-up and high temperature deposits.
- Gear Oils changes intervals can be as short as 25,000 km for severe application to 60,000km on normal application

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AQELA HPGO GL-4

GEAR OIL SAE 80W 90

AQELA HPGO GL-4 is a quality and high performance semi synthetic hydrocarbon oil with advanced additive system for automotive manual gearboxes with good anti wear, extreme pressure (EP) and oxidation stability.

AQELA HPGO GL-4 performance is equivalent to or higher than **SAE J2360 / API GL-4** and **SAE 80W90**. The shelf life for this product is 48 months from date acceptance.

The characteristic shown below:

Characteristics	SAE 80W90 (GL-4)
Pour Point, °C	-25
Flash Point, °C	178
Kinematic Viscosity, @ 100°C, cSt	19.02
Viscosity Index	138

Product Packaging :



4 Liter



Pail



Drum (209L)



CUSTOMER BENEFITS

- Excellent protection against wearing, scoring produced by high speed and heavy loads. provide excellent protection from soot induced wear.
- Degradation and oil thickening to ensure deposit do not form around seal helps maintain clean bearing surface to minimize wear.
- Excellent thermal and oxidation stability that minimized low temperature sludge build-up and high temperature deposits.
- Gear Oils changes intervals can be as short as 25,000 km for severe application to 60,000km on normal application

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AQELA HPGO GL-5

GEAR OIL 75W 90

AQELA HPGO GL-5 is a superior sulphur phosphorus, extreme pressure gear lubricant formulated with premium quality base stocks to meet demands for excellent performance with good anti wear, extreme pressure (EP) and oxidation stability.

AQELA HPGO GL-5 performance is equivalent to or higher than **SAE J2360 / API GL-5**

The shelf life for this product is 48 months from date acceptance.

The characteristic shown below

Characteristics	SAE 75W90 (GL-5)
Flash Point, °C	248
Kinematic Viscosity, mm ² /s @ 100°C, cSt	24.5
Viscosity Index	112

Product Packaging :



4 Liter



Pail (18L)



Drum (209L)



CUSTOMER BENEFITS

- Excellent protection against wearing, scoring produced by high speed and heavy loads. provide excellent protection from soot induced wear.
- Degradation and oil thickening to ensure deposit do not form around seal helps maintain clean bearing surface to minimize wear.
- Excellent thermal and oxidation stability that minimized low temperature sludge build-up and high temperature deposits.
- Gear Oils changes intervals can be as short as 25,000 km for severe application to 60,000km on normal application

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AQELA^{NLGI 2}

MULTI PURPOSE EP GREASE

AQELA NLGI 2 EP Grease is lithium based multipurpose extreme pressure lubricating grease made from refined mineral oil thickened by lithium complex soap and fortified with extreme pressure agent. A premium quality extreme pressure lubricating grease suitable for use greasing military vehicles components, heavy machines and equipments.

Our lubricant shelf life is 48 months from the date of acceptance.

The characteristic shown below:

Characteristics	Test Method	NLGI 2	
Drop Point, °C (min)	ASTM D 566	203	
Work Penetration @ 25, °C, 0.1mm	ASTM D 217	276.5	

Product Packaging



CUSTOMER BENEFITS

- **Protects Equipment** : Resistance to water wash out retains grease in place in wet environments. Mechanical stability minimizes shear down the grease, reducing leakage from bearings.
- **Good Service Life** : Effective oxidation inhibitor reduces the degradation of the base oil in service, increasing the service life of grease.
- **Minimizes Corrosive Wear** : Effective rust and corrosion inhibitors protect metal surfaces in moist environments.

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AQELA Radiator Coolant

AQELA Radiator Coolant is an excellent liquid radiator coolant product suit to Army vehicles. It has been formulated to convey high quality performance, antifreeze, ethylene glycol, inhibited and heavy duty product to effectively dissipate heat from the radiator system to prevent engine overheating.

AQELA Radiator Coolant performance is equivalent to or higher than **A-A 52624A / SAE 1034** (Antifreeze multi engine coolant). Product shelf life is 48 months from date of acceptance.

The characteristic shown below:

Characteristics	Coolant
Boiling Point, °C	179
Flash Point, °C	138
Specific Gravity, @ 15.5/15.5, °C kg/l	1.1174
Freezing Point, 50 vol % in water	-25

Product Packaging : 0.5 Liter, 1 Liter, 4 Liter



4 LITER



1 LITER



CUSTOMER BENEFITS

- The Coolant provides excellent protection to all commonly used in combustion engines cooling system. It is compatible with all nitrile freed antifreeze based on ethylene glycols'.
- Complete Cooling System Protection : Effective inhibitor system provides corrosion protection for all engine and cooling system metals, such as iron, steel, copper, aluminium and solder alloys .
- Extended Service Life : Ethylene glycol base raises boiling point of diluted coolant so that engine is protected against overheating.

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AQELA DOT 4 BRAKE FLUID OIL

AQELA DOT 4 is a high performance hydraulic brake fluid to protect automotive hydraulic brake systems and clutch systems. AQELA DOT 4 is formulated to get optimum performance from disc and drum vehicles with exceeds DOT4 specification.

AQELA DOT 4 performance meets and exceeds the specifications of **SAE J1704** and **FMVCC 116 DOT 4**. The lubricant shelf life is 48 months from date of acceptance.

The characteristic shown below:

CHARACTERISTIC	GRADE DOT 4
Dry Boiling Point (min)	256.5
Wet Boiling Point (min)	160

Product Packaging :



0.5 Liter



1 Liter



RECOMMENDED OIL INTERVAL CHANGES

- . Engineered for all ABS, disc- and drum type brake systems that call for DOT 4 performance.
- . Formulated as a high quality glycol and glycol ether fluid.
- . Outstanding thermal stability assures rapid transmission of pressure at sub zero temperature
- . Exhibits excellent lubricity and corrosion control and is safe for all material used in vehicle braking system.

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AQELA GOLD

COMPRESSOR OIL (SP-15)

AQELA GOLD Compressor Oil SP-15 are a high performance fully synthetic gas compressor lubricant formulated with Polyalkylene Glycol (PAG) and designed for use in endorsed pattern gas compressor where the crankcase and bearings operate in a hydrocarbon or chemical gas filled atmosphere by most passenger and commercial vehicles intended for the refrigerant R134A.

AQELA GOLD Compressor Oil SP-15 designed to control vane and screw wear and oil for reciprocating compressors specially to help control cylinder, piston-ring and valve wear.

The lubricant shelf life is 48 months from date of acceptance.

The characteristic shown below :

Characteristics	C.O SP-15
Flash Point	201
Kinematic Viscosity @ 40°C, cSt	80.1
Kinematic Viscosity @ 100°C, cSt	16.4
Viscosity index	221



4 Liter



Pail (18 L)



Drum (209 Liter)



CUSTOMER BENEFITS

- . Engineered the longer an oil's life, less fluid maintenance and can operate with less interruption.
- . The oils are also developed to help to reduce wear and enhanced protection in high temperature.
- . Increasing oil drain interval by 100% compared with conventional oils.
- . Extending equipment service life.

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